



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

Incorporated Association not for gain
Reg No 1955/000003/08

Part I Examination for the Fellowship of the College of Dentistry of South Africa



26 August 2014

Paper 2

(3 hours)

All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the one answer)

- 1 Name the factors affecting plasma calcium concentration, and discuss the mechanism by which each exerts its effects. [25]
- 2 List the hormones that affect the plasma glucose concentration, and briefly describe the action of each. [25]
- 3 Discuss the role of the different divisions of the autonomic nervous system on the regulation of blood pressure. [25]
- 4 The maintenance of pH-homeostasis is extremely important. Discuss acid-base disturbances in terms of their
 - a) Primary causes.
 - b) Compensatory mechanisms in order to maintain pH homeostasis by also referring to the role of the kidneys and lungs. [25]



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Paper 3

(3 hours)

All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the one answer)

- 1 Discuss embolism under the following headings
 - a) Pulmonary thromboembolism. (8)
 - b) Systemic thromboembolism. (8)
 - c) Fat embolism. (3)
 - d) Air embolism. (3)
 - e) Amniotic fluid embolism. (3)[25]

- 2 Immune complex diseases are among the most common immunologic diseases. Discuss the pathogenesis and pathology of Type III Hypersensitivity and give three examples of such diseases. [25]

- 3 Discuss
 - a) Factors that may influence wound healing. (10)
 - b) AIDS defining infections. (15)[25]

- 4 Write short notes on the following
 - a) Blastoma. (5)
 - b) TP53 oncogene. (5)
 - c) Ionising radiation as carcinogenic factor. (5)
 - d) Paraneoplastic syndrome. (5)
 - e) Dissecting aorta aneurysm. (5)[25]